2. PRESS/ROTARY SECTION

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2. Press/Rotation Section

[Removal and Assembly]

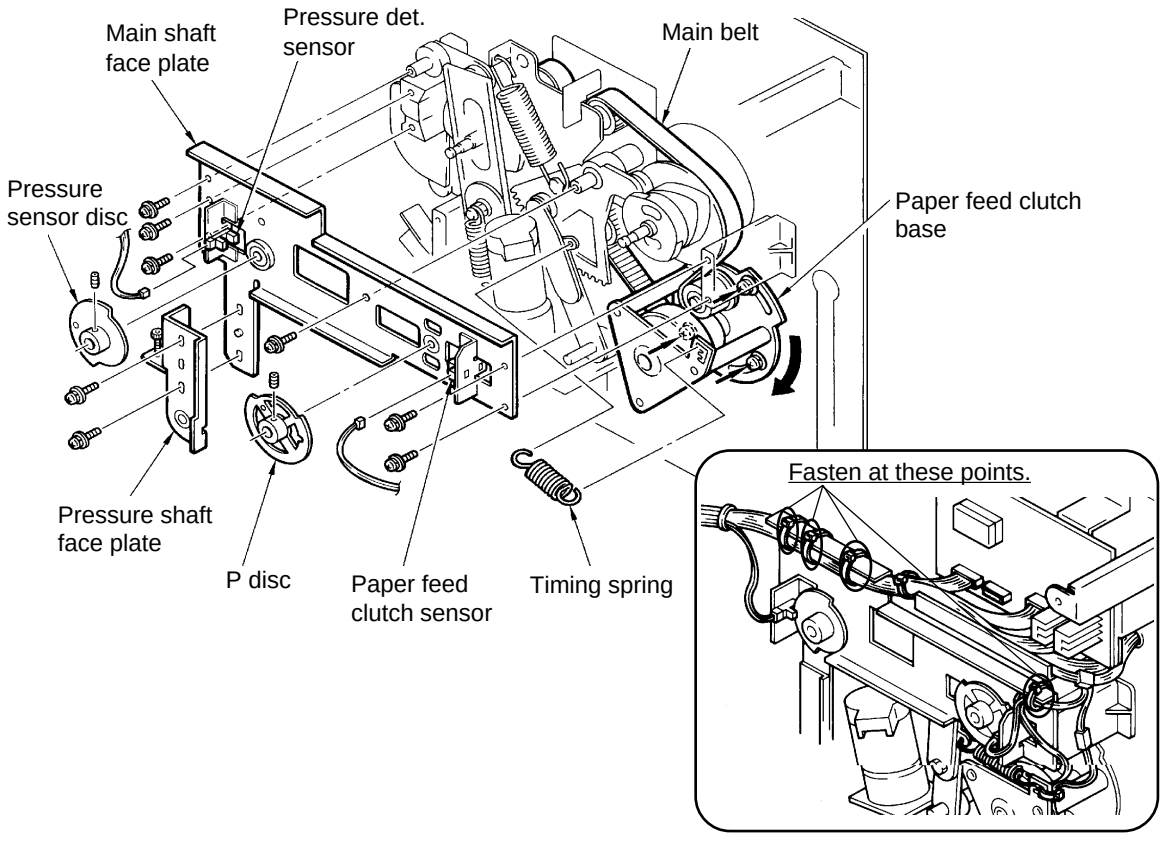
1. Main Shaft Face Plate

< Removal Procedure >

1. Open the Front cover and press the Drum home position button to set the Drum at the home position (Position A).
   Turn OFF the power and remove the Back cover.
2. Remove the Timing spring.
3. Loosen three mounting screws on the Paper feed clutch base and turn the Paper feed clutch unit clockwise to release the tension of the Main belt.
4. Loosen the allen screws securing the P disc and Pressure sensor disc and remove these discs.
5. Remove two mounting screws on the Pressure shaft face plate and remove the plate.
6. Disconnect the connectors of the Paper feed clutch sensor and Pressure detection sensor and cut the wire clampers fastening the wire harnesses on the Main shaft face plate.
7. Remove six mounting screws on the Main shaft face plate and remove the plate.

- Precautions in Assembly -

- After securing the Main shaft face plate, always check if the Drum can be smoothly pulled out of and pushed into the machine.
  If not, loosen the mounting screws on the Main shaft face plate and change the position of the plate to obtain the correct position of the Main shaft.
- Fasten the wire harnesses on the Main shaft face plate with wire clampers as shown below.
- Perform the following adjustments after assembly: resting position of pressure lever (cf. p. II-20), position of P disc (cf. p. I-34) and position of pressure sensor disc (cf. p. II-23)



2. Pressure Link Assembly

< Removal Procedure >

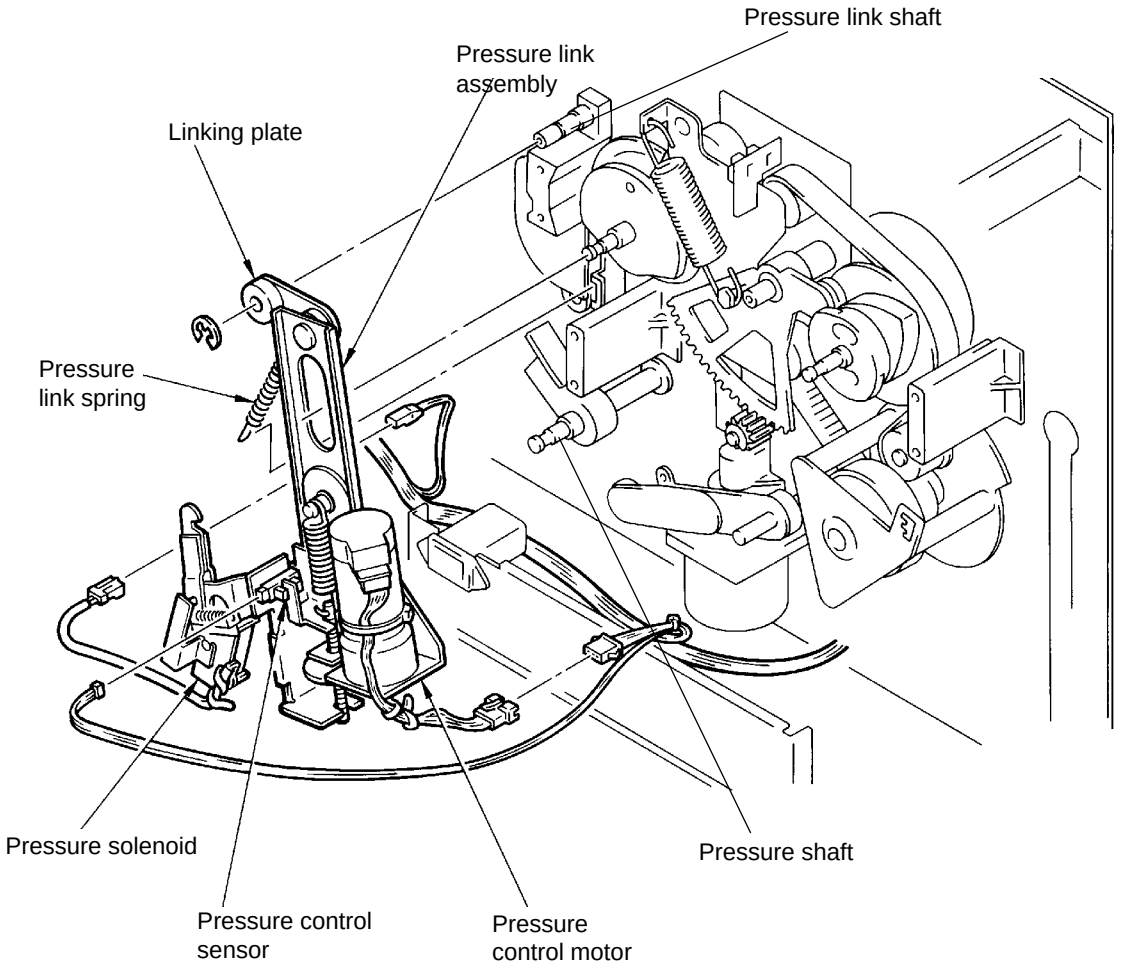
1. Remove the Main shaft face plate, referring to the previous page.
2. Disconnect the connectors of the following parts: Pressure control motor, Pressure control sensor and Pressure solenoid
3. Unhook the Pressure link spring at the lower point.
4. Remove an E ring on the Linking plate shaft and then remove the Pressure link ass'y (which includes the Pressure hook), sliding the Linking plate and the Pressure hook off the respective shafts.

[IMPORTANT]

Never force the Pressure link ass'y off the Drive base unit to avoid deformation of the Pressure links. If they are deformed, they will not smoothly move up and down after assembly.

- Precautions in Assembly -

- Never install the Pressure link assembly forcibly into the Drive base unit to avoid deformation of the Pressure links. If they are deformed, they will not smoothly move up and down after assembly.
- After assembly, check the following adjustments: position of Pressure solenoid (cf. p. II-21), resting position of Hook lever (cf. p. II-22) and standard pressure position (cf. p. II-17)



3. Pressure Lever

< Removal Procedure >

1. Remove the Pressure link assembly, referring to the previous page.
2. Unhook the Pressure lever spring at the upper point.
3. Loosen two allen screws securing the Pressure lever and then remove the Pressure lever, sliding it off the Pressure shaft.

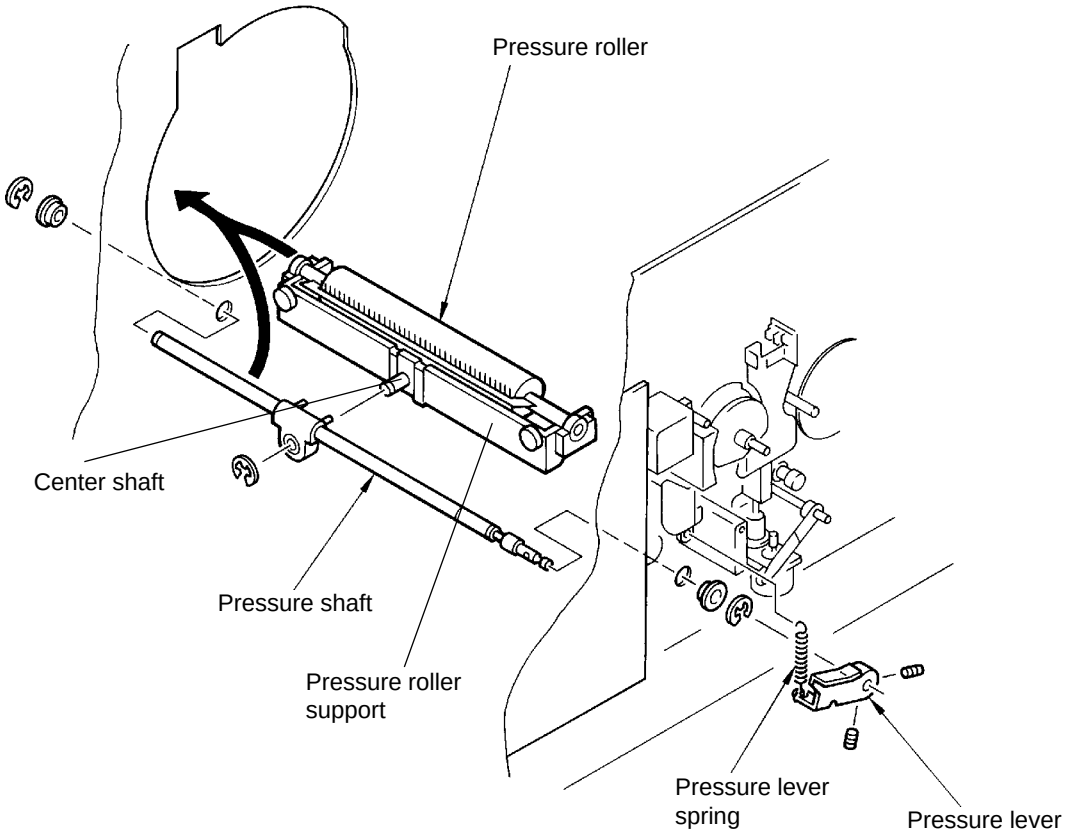
- Precautions in Assembly -

- Always adjust the installation position of the Pressure lever after assembly. (Refer to p. II-20.)

4. Pressure Shaft

< Removal Procedure >

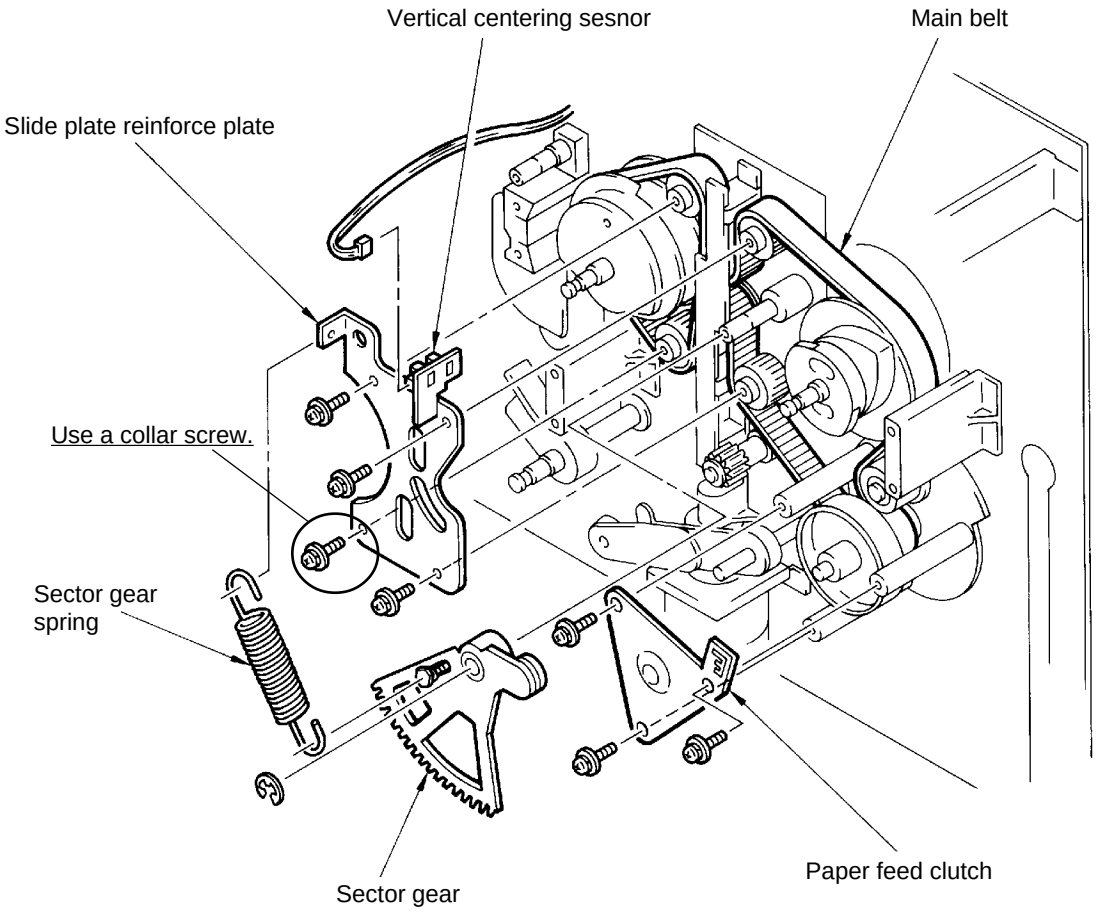
1. Remove the Pressure lever, referring to the procedure as outlined above.
2. Take out the Drum from the machine.
3. Remove the Paper receiving tray and Suction cover plate, referring to the page III-12.
4. Remove the mounting screws on the Suction unit and pull out the unit a little to make space for removal of the Pressure shaft.
5. Remove E rings and collars at both ends of the Pressure shaft, then remove the shaft from the Drum installation opening.
6. Remove an E ring on the Center shaft of the Pressure roller support and separate the Pressure roller support from the Pressure shaft.



5. Main Belt

< Removal Procedure >

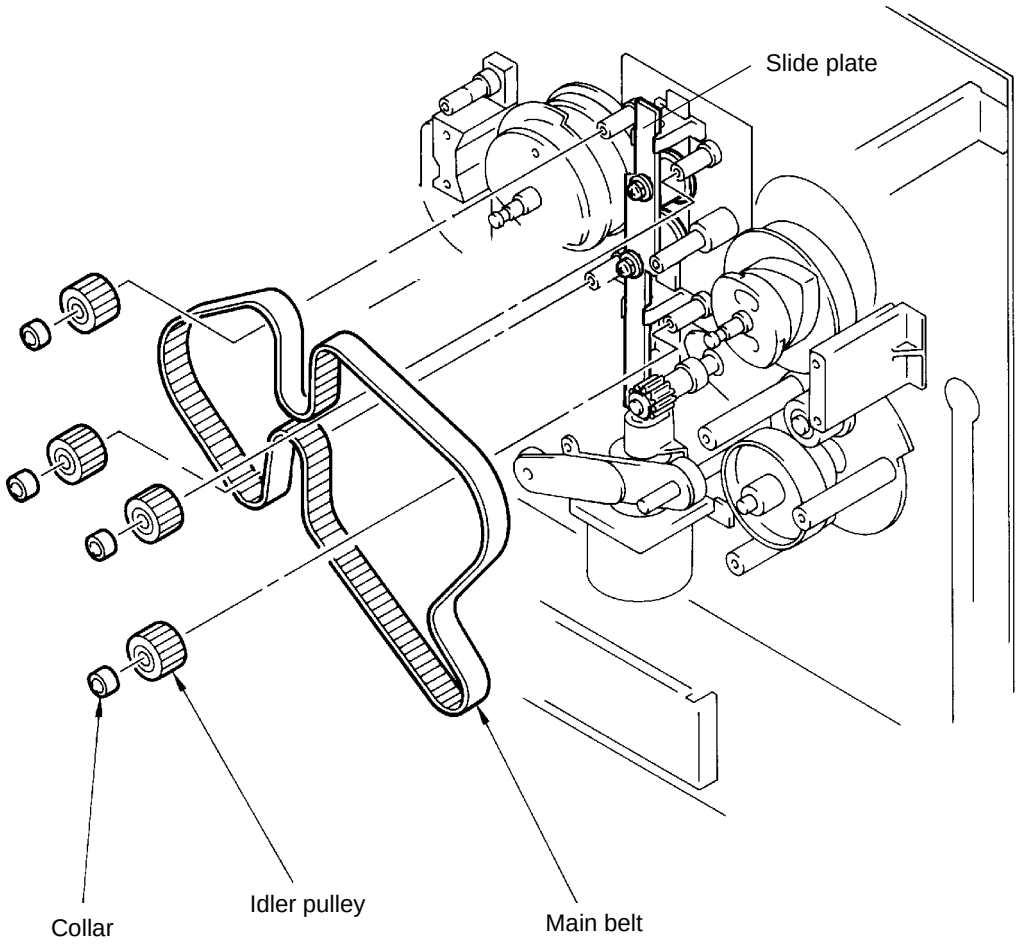
1. Remove the Pressure link assmebly, referring to Page II-10.
2. Remove the Sector gear spring.
3. Remove an E ring on the Sector gear shaft and then remove the Sector gear.
4. Remove three mounting screws on the Paper feed clutch and then remove the clutch.
5. Disconnect the Vertical centering sensor connector.
6. Remove four mounting screws on the Slide plate reinforce plate and then remove the plate and the Vertical centering sensor together.



7. Remove four Idler pulleys and collars from the shafts.
8. Remove the Main belt, leading it through behind the Slide plate.
   [IMPORTANT]
   Be careful not to lose collars on the Idle pulleys and spacers on the Idlers by dropping them when removing the belt.

- Precautions in Assembly -

- When securing the Slide plate reinforcement plate, always use a collar screw for the lower left mounting screw because a double-washer screw will hit the Sector gear.
- After assembly, perform the following adjustments: resting position of Pressure lever (cf. p. II-20), position of P disc (cf. p. I-34), position of Pressure sensor disc (cf. p. II-23) and vertical print position (cf. p. I-37)



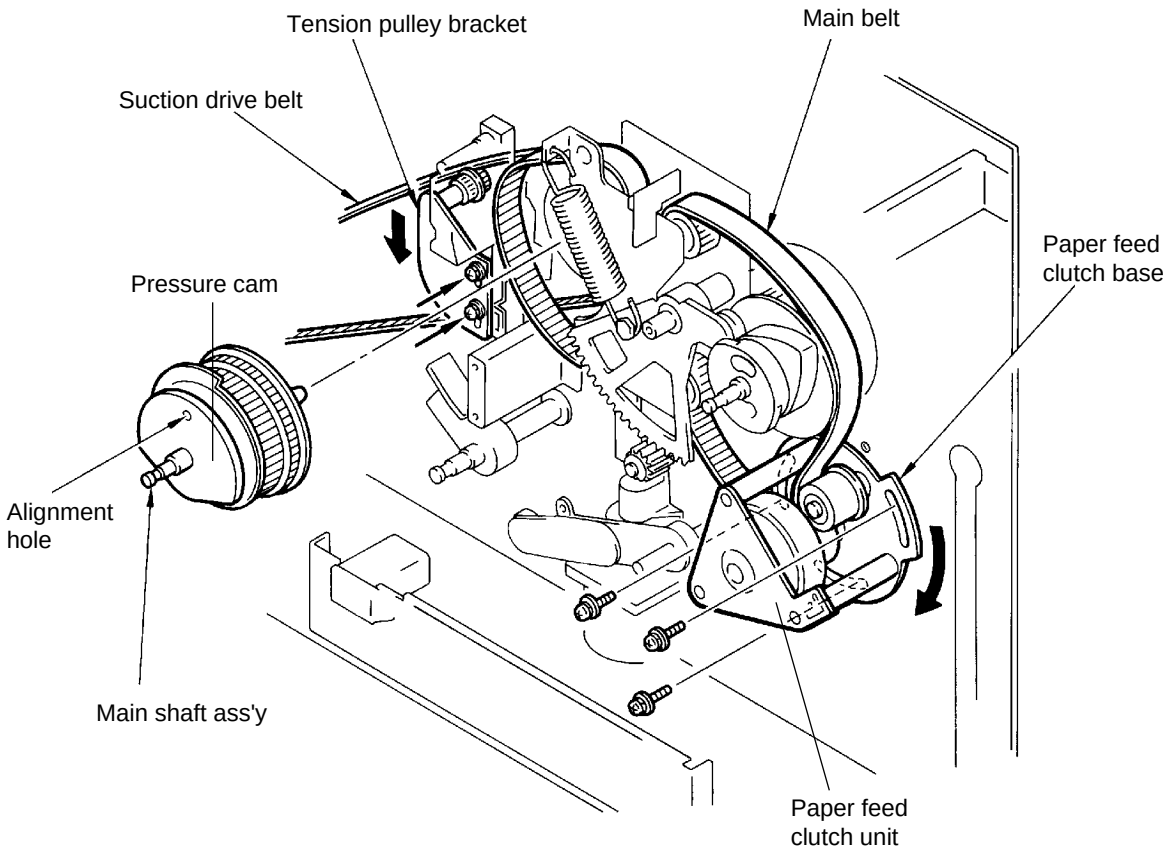
6. Main Shaft Ass'y

< Removal Procedure >

1. Remove the Drum from the machine.
2. Remove the Pressure link ass'y, referring to the page II-10.
3. Remove three mounting screws on the Paper feed clutch base and let the Paper feed clutch unit hang free to relieve tension on the Main belt.
4. Loosen two mounting screws on the Tension pulley bracket and loosen the tension of the Suction drive belt.
5. Remove the belts from the Main pulley and then remove the Main shaft ass'y.

- Precautions in Assembly -

- Install the Main shaft ass'y so that the alignment hole on the Pressure cam can point up.
- Secure the Tension pulley bracket pushing it upward to apply tension to the Suction drive belt.
- Adjust the vertical print position after assembly. (Refer to the page I-37.)



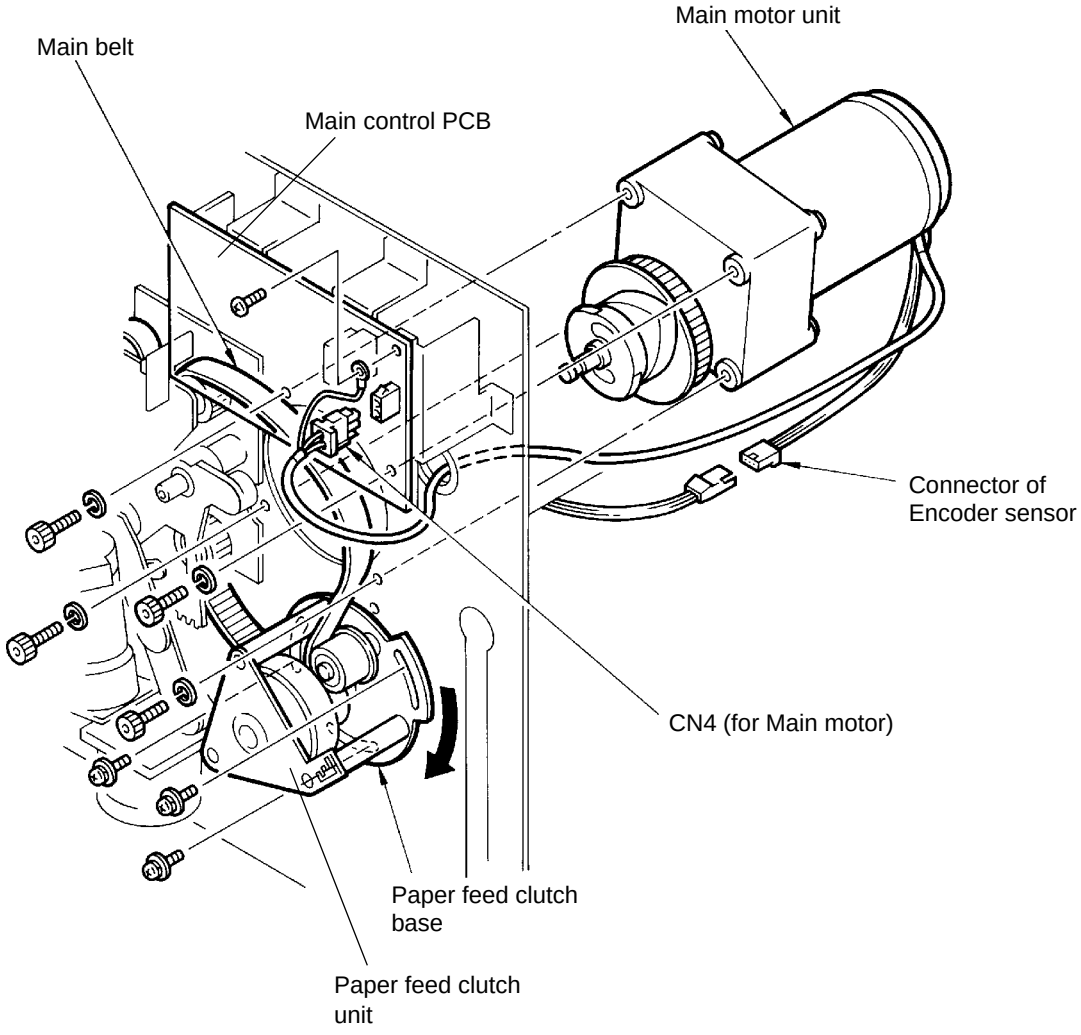
7. Main Motor Unit

< Removal Procedure >

1. Remove the Master removal unit, referring to the page VIII-7.
2. Remove the Main shaft face plate, referring to the page II-9.
3. Remove three mounting screws on the Paper feed clutch base and let the Paper feed clutch unit hang free to loosen the tension of the Main belt.
4. Disconnect connector **CN4** (for the Main motor) on the **Motor control PCB** and remove the ground wire coming out of the wire harness of connector CN4 from the Motor control PCB.
5. Disconnect the Encoder sesnor connector attached to the Main motor unit.
6. Remove four mounting screws of the Main motor unit and take out the Main motor unit from under the Master removal unit.

- Precautions in Assembly -

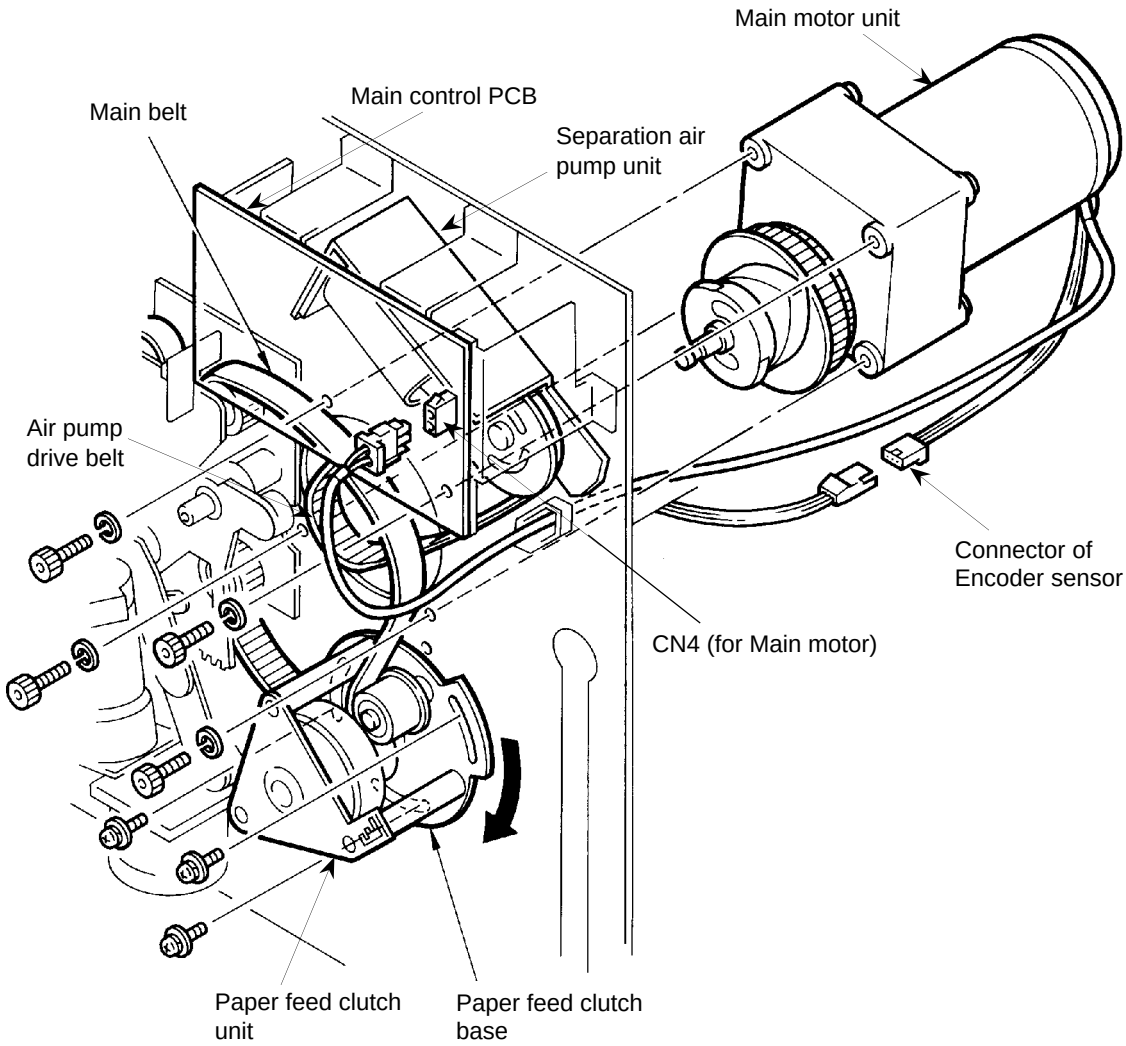
- Install the Main motor unit so that the Cam pulley can be positioned below the top half of the Main motor's height.
- After assembly, perform the following adjustments: resting position of Pressure lever (cf. p. II-30) and vertical print position (cf. p. I-37)



8. Main Motor Unit <GR>

< Removal Procedure >

1. Remove the Master removal unit, referring to the pages VIII-3 and VIII-4.
2. Remove the Main shaft face plate, referring to the page II-9.
3. Remove three mounting screws on the Paper feed clutch base and let the Paper feed clutch unit hang free to loosen the tension of the Main belt further.
4. Disconnect connector **CN4** (for the Main motor) on the **Motor Control PCB**.
5. Disconnect Encoder sesnor connector attached to the Main motor unit.
6. Remove four mounting screws of the Main motor unit.
7. Disengage the Main belt and Air pump drive belt from the pulleys attached to the Main motor unit. Remove the unit from inside the body.

- Precautions in Assembly -

- After assembly, perform the following adjustments: resting position of Pressure lever (cf. p. II-20) and Vertical print position (cf. p. I-37)